MURF1220CT

Rev.F Mar.-2016

蓝箭电子
BLUE ROCKET ELECTRONICS

DATA SHEET

/ Descriptions

Ultrafast Recovery Diode in a TO-220F Plastic Package.

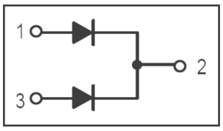
/ Features

Silicon epitaxial process to produce ultrafast recovery diode with low reverse leakage current and high reliability.

/ Applications

For high frequency, high voltage, high current rectifier diode, freewheeling diode.

/ Equivalent Circuit



/ Pinning

PIN1 Anode PIN 2 Cathode PIN 3 Anode

/ h_{FE} Classifications & Marking

See Marking Instructions

/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	200	V
RMS Voltage	V_{RMS}	140	V
DC Blocking Voltage	V_{DC}	200	V
Average Forward Current	I_F	2×6	A
Non Repetitive Peak Surge Current	I_{FSM}	100	A
Thermal Resistance Junction to Case	$R\ _{Jc}$	3.3	/W
Storage Temperature Range	$T_j\ T_{stg}$	-55～150	

/ Electrical Characteristics(Ta=25)

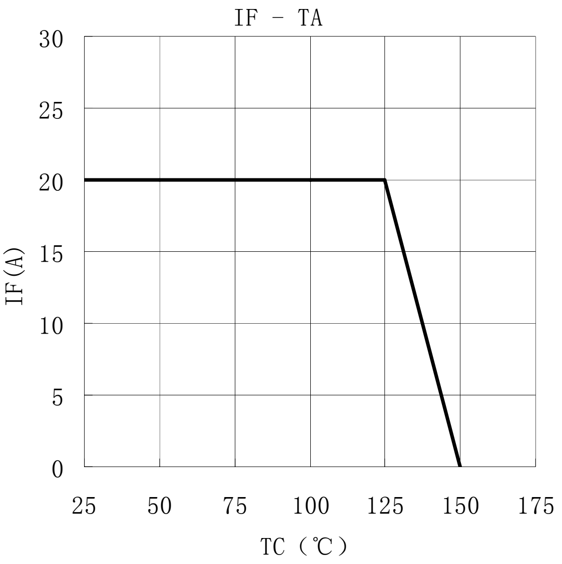
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward Voltage	V_F	I_F=2A Tc=25		0.82		V
		I_F=2A Tc=125		0.68		V
		I_F=6A Tc=25		0.92	1.0	V
		I_F=6A Tc=125		0.82	0.9	V
Instantaneous Reverse Current	I_R	V_R=200V Ta=25			10	A
		V_R=200V Ta=125			150	A
Reverse Recovery Time	t_{rr}	I_R=1.0A, I_{RR}=0.25A I_F=0.5A			35	ns

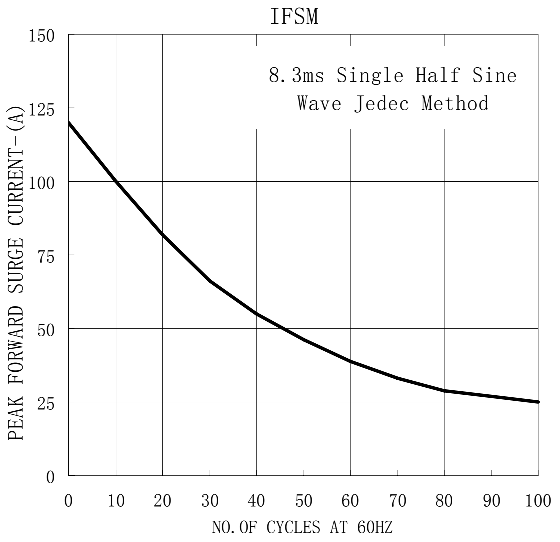
/Notes：

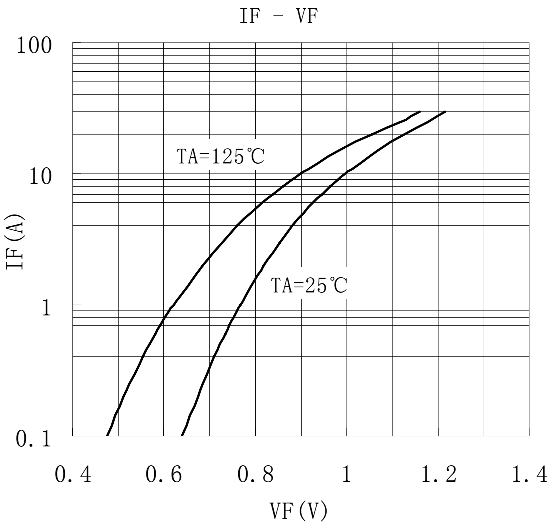
/Short duration pulse test used to minimize self-heating effect.

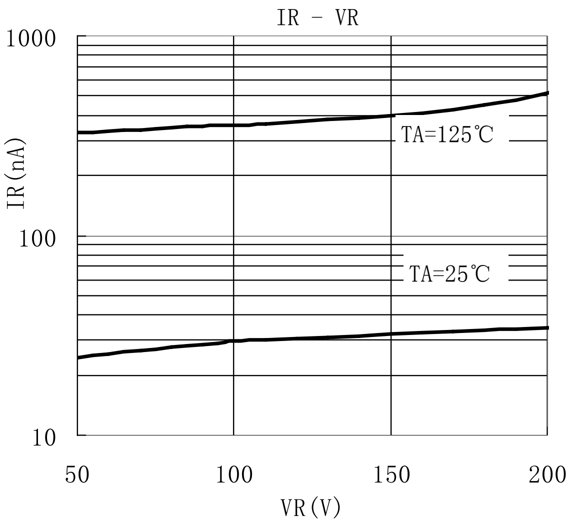
2. 。/ Unless otherwise noted, values for the parameters of a single chip

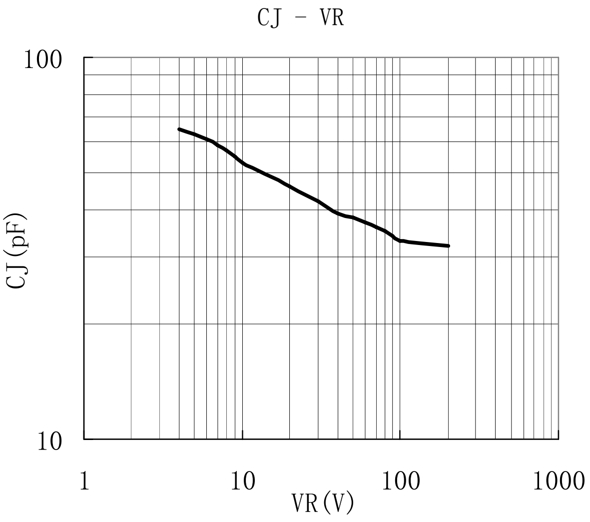
/ Electrical Characteristic Curve



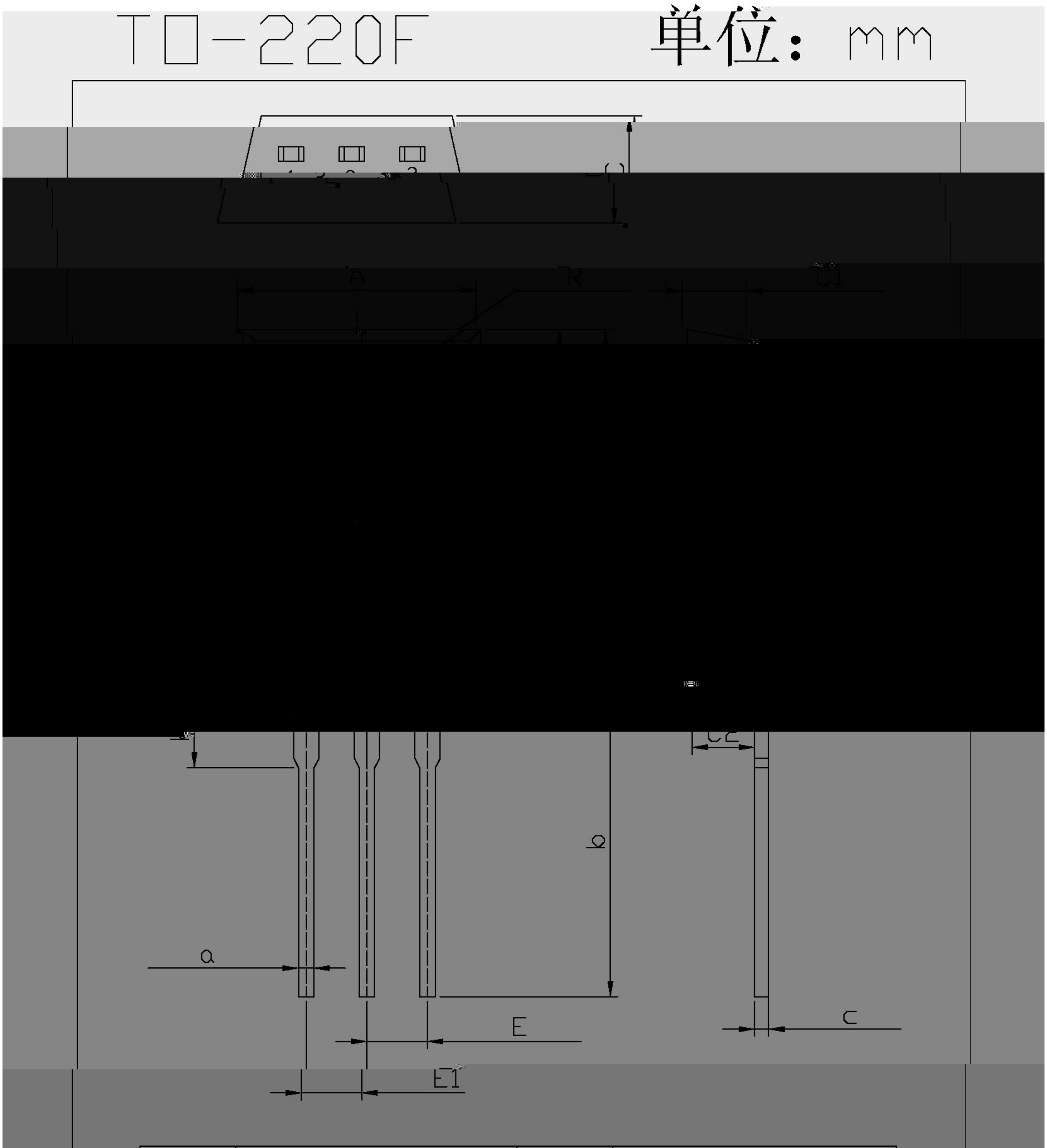






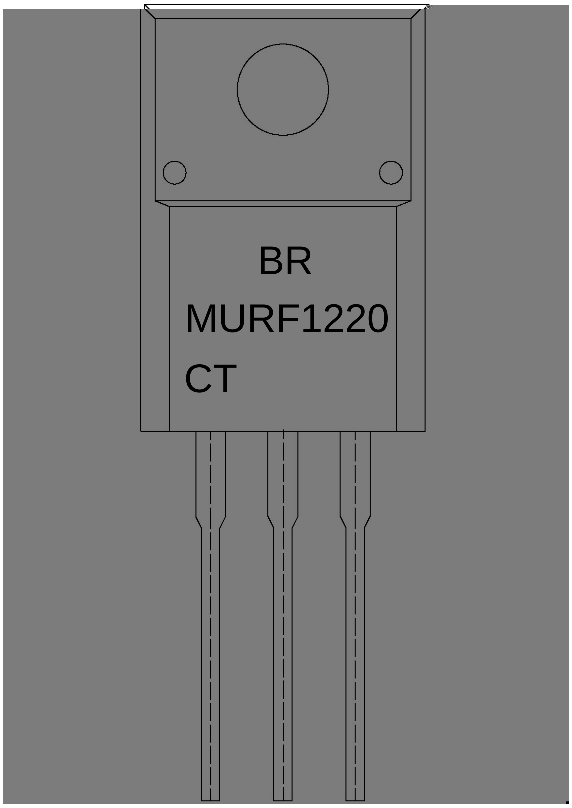


/ Package Dimensions



Symbol	Dimensions In Millimeters		Symbol	Dimensions In Millimeters	
	Min	Max		Min	Max
C	4.3	4.7	b1	2.9	3.9
A	9.7	10.3	a	0.55	0.75
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

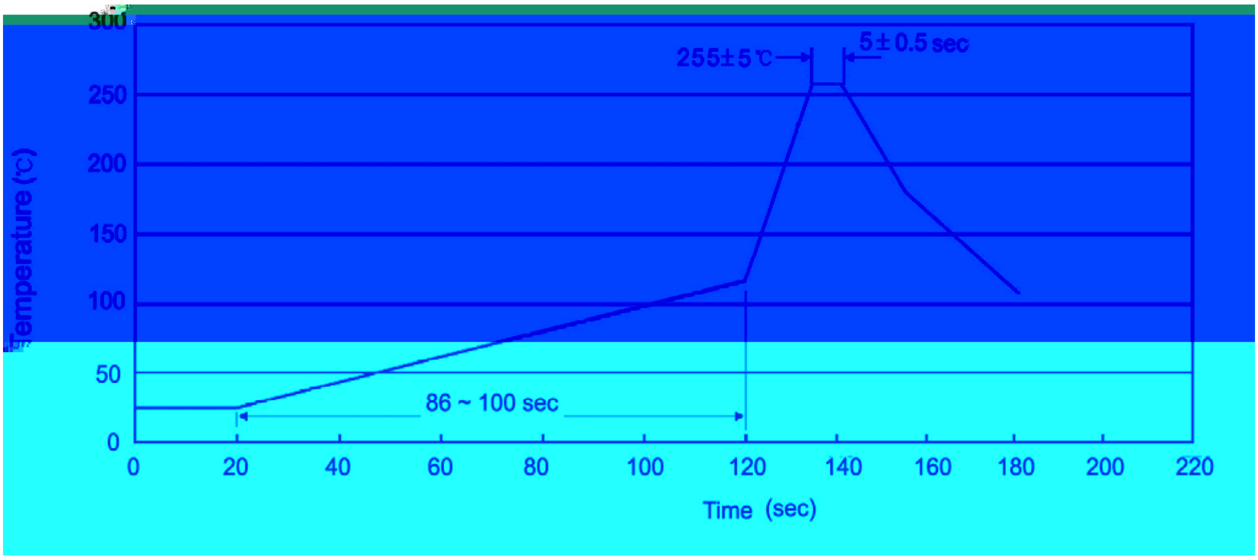
/ Marking Instructions



Note:

BR:	Company Code
MURF1220:	Product Type.
CT:	Internal Structure
****:	Lot No. Code, code change with Lot No.

( ) / Temperature Profile for Dip Soldering(Pb-Free)



	Note:
1 25 150 60 90sec;	1.Preheating:25~150 , Time:60~90sec.
2 255 5 5 0.5sec;	2.Peak Temp.:255 5 , Duration:5 0.5sec.
3 2 10 /sec.	3. Cooling Speed: 2~10 /sec.

/ Resistance to Soldering Heat Test Conditions

270 5	10 1 sec.	Temp.:270±5	Time:10±1 sec

/ Packaging SPEC.

/ BULK

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm^3)		
	只 袋	袋 盒	只 盒	盒 箱	只 箱	袋	盒	箱

/ TUBE

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm^3)		
	只 套管	套管 盒	只 盒	盒 箱	只 箱	套管	盒	箱

/ Notices